CDR-915XL • Advanced SS Data Transceiver

The CDR-915XL is an advanced high performance spread spectrum data radio transceiver. Its design allows easy integration into OEM applications and is FCC and Industry Canada approved.

Key Benefits

- Low cost
- Small footprint
- Easy integration (OEM Developer's kit available)
- Fast throughput (100kbps RF data rate)
- Powerful Windows™ based path management software detects interference and signal integrity
- Transparent or Guaranteed Point-to-Point or Point-to-Multi-Point data delivery modes
- Field upgradeable
- Programmable as a system repeater and endpoint for extended range

Applications

- HVAC control
- Camera PTZ control
- Vending
- SCADA systems
- Wireless Network Nodes
- Security systems
- Industrial controls
- Field area networks
- Most any application currently using an RS-232 or RS-485 serial connection

Specifications

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Frequency ..................................................... 902-928 MHz
Frequency Control .....................................PLL Synthesizer
Transport .......................................................Transparent
                                                    Point-to-Point
                                          Point-to-Multipoint
                                      Multipoint-to-Multipoint
                        Broadcast and Guaranteed Delivery
                                          Smart Mode (routable)
Data Interface .......................................Asynchronous TTL
Hopping Channels.............. up to 50 depending on country
Configuration.................................. Windows™ Application
Addressing ................................ 65,025 Unique Addresses
Duty Cycle.........................100% Receive, 100% Transmit
Data Interface Rate ................................1200, 2400,4800,
................. 9600,19.2k,56k bps, 7-8 bit, even or odd parity
Temperature .............................................. -30 to +70 ℃
Data Encryption.............................................8 – 448 bit
Range* ......................................................up to 10 miles
Data Encoding .....................................Proprietary Method
Receiver Sensitivity .................................-105 dBm usable
Modulation ...............................................Direct FM (FSK)
RF Data Rate..................................................... 100 kbps
Data Flow Control .............................Hardware using CTS
Transmitter Output ........................................ 200 mWatt
Error Detection...............................................16-bit CRC
Input Voltage ................................................8 – 15 VDC
Input Current ............................... 250 mA Transmit Mode
                                              70 mA Receive Mode
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Regulatory

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United States (FCC) ..........................CFR 15.247 Approved
Canada (IC) ......................................... RSS210 Approved
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Mechanical

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Size .........................................................1.750″ x 2.925″
Antenna Connector ........................................Reverse SMA
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Interface Options

- RS-232/485 (p/n INT-232/485 Combo)
- MODBUS™ I/O Board
- USB (p/n INT-USB)

Developer's Kit

The CDR-9150XL OEM Design Kit includes a manual, software and two each of the following.

- CDR-915XL Data Radio Transceiver
- INT-232/485 Combo Board
- ¼ Wave Antenna
- Power Supply Modules
- Serial Cables